INTERNATIONAL SEARCH REPORT

PCT/IB2004/052900

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H02M3/158									
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED									
Minimum do	ocumentation searched (classification system followed by classificat	ion symbols)							
1107	110211								
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched									
			-						
	ata base consulted during the international search (name of data ba	ise and, where practical, search terms used)						
EPO-In	ternal, WPI Data, PAJ								
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	 							
Category •	Citation of document, with indication, where appropriate, of the rel	levant passages	Relevant to daim No.						
Χ	US 5 617 015 A (GODER ET AL)		1-8						
	1 April 1997 (1997- 0 4-01)	cos 1 An							
	column 6, line 3 — line 33; figures 1,4a column 7, line 24 — line 47; figure 5a								
Α	US 2003/086279 A1 (BOURDILLON LAU	1-8							
	8 May 2003 (2003-05-08) abstract; figures 3,4								
Α		ET AL \	1–8						
A	US 6 437 917 B1 (OOSHIMA TETSUYA 20 August 2002 (2002-08-20)	ET AL)	1-0						
	cited in the application the whole document								
			1.0						
Α	US 5 751 139 A (JORDAN ET AL) 12 May 1998 (1998-05-12)		1-8						
	column 4, line 44 - column 5, line 38;								
	figures 1,3								
	- /								
Furth	Further documents are listed in the continuation of box C. Patent family members are listed in annex.								
* Special categories of cited documents: The later document published after the International filing date or priority date and not in conflict with the application but									
conside	nt defining the general state of the art which is not ered to be of particular relevance	cited to understand the principle or the invention	ory underlying the						
"E" earlier document but published on or after the International filling date "L" document which may throw doubts on priority claim(s) or "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone									
which is cited to establish the publication date of another "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the									
O document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but *O* document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.									
later th	an the priority date claimed	*&" document member of the same patent family							
vate of the a	actual completion of the International search	Date of mailing of the international sear	ch report						
7 April 2005		19/04/2005							
Name and m	alling address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 Nt. 2220 Liv Provide	Authorized officer							
NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016		Gentili, L							

INTERNATIONAL SEARCH REPORT

unformation on patent tailing members

International Application No
PCT/IB2004/052900

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5617015	A	01-04-1997	NONE		
US 2003086279	A1	08-05-2003	WO	03041253 A1	15-05-2003
US 6437917	B1	20-08-2002	JP JP US US	3526157 B2 10186522 A 6421174 B1 6081380 A	10-05-2004 14-07-1998 16-07-2002 27-06-2000
US 5751139	A	12-05-1998	CA EP JP WO	2283995 A1 1018065 A1 2001514840 T 9840802 A1	17-09-1998 12-07-2000 11-09-2001 17-09-1998